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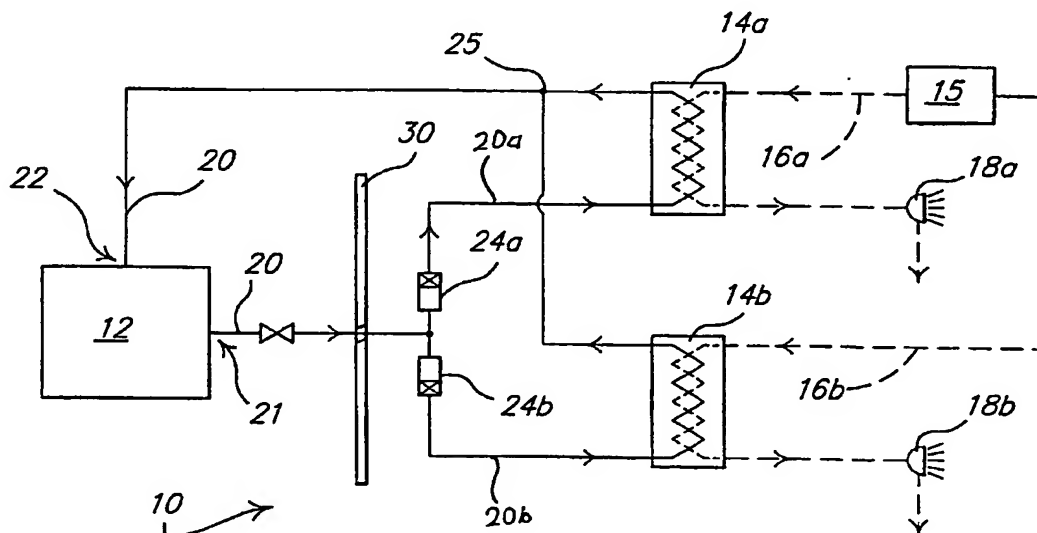
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(54) Title: ANTI-CONDENSATION CONTROL SYSTEM FOR DEVICES DRIVEN BY COMPRESSED AIR



(57) Abstract: An anti-condensation control system for devices driven by or utilizing decompressing air is provided. The system includes a supply of compressed air connected to a compressed air-utilizing device. A source of heated fluid is provided and is connected to a heat exchanger that transfers heat from the heated fluid to the compressed air. The compressed air is heated in the heat exchanger sufficiently that upon decompression the temperature of the device is not lowered to the ambient dew point. The system is particularly applicable to devices utilizing compressed air for the spraying of liquid materials.

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

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PCT/US03/37846

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : F16D 31/02
US CL : 60/407

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 60/407

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST: compressed air, heater, heating, heat exchanger, water, fluid, paint sprayer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,214,740 A (CARROLL) 25 May 1993 (25.05.1993), figure 2.	1-4, 7-23
A	US 3,336,463 A (JOHNSON) 15 August 1967 (15.08.1967), figure 1	1-4, 9, 15-20
A	US 2,980,339 A (BOK et al) 18 April 1961 (18.04.1961), figure 1	1-4, 9, 15-20

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Further documents are listed in the continuation of Box C.

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See patent family annex.

<p>* Special categories of cited documents:</p>		
"A" document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

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